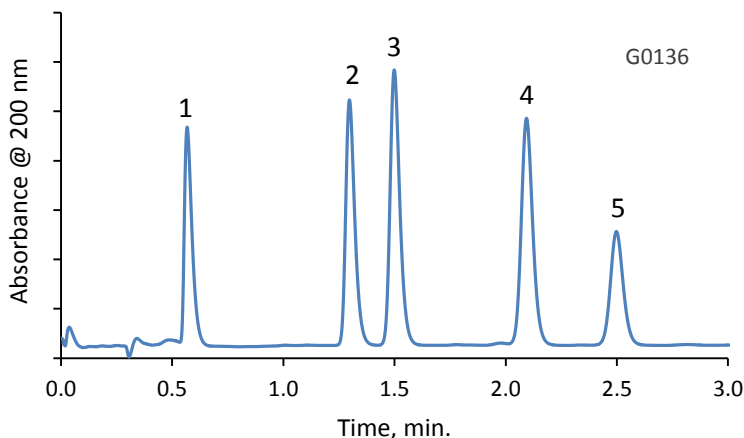


Application Note: 147-SC

## Isocratic Separation of Synthetic Cannabinoids on HALO C18



### PEAK IDENTITIES:

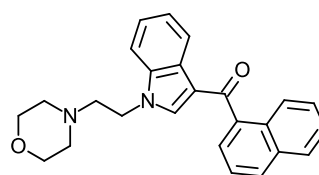
1. JWH-200
2. (±)-CP 47, 497
3. (±)-CP 47, 497 C8 Homologue
4. JWH-250
5. HU-211

### TEST CONDITIONS:

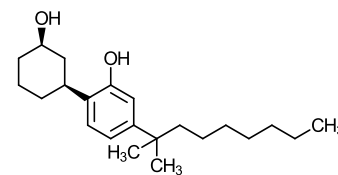
Column: HALO C18, 2.1 x 100 mm, 2.7 μm  
 Part Number: 92812-602  
 Mobile Phase: Isocratic: 25/75 A/B  
 A= 5 mM ammonium formate, pH unadjusted  
 B= 95/5 acetonitrile/ water with 5 mM ammonium formate  
 Flow Rate: 0.6 mL/min.  
 Pressure: 247 bar  
 Temperature: 30 °C  
 Injection Volume: 0.5 μL  
 Sample Solvent: 50/50 water/acetonitrile  
 Detection: UV 200 nm, VWD  
 Data Rate: 50 Hz  
 Flow Cell: 2.5 μL semi-micro  
 LC System: Shimadzu Prominence UFLC XR

Synthetic cannabinoids are man-made compounds that act like the chemicals found in the marijuana plant. The five compounds in this mixture are illegal and represent only a small number of the variations that exist. Just as one compound is made illegal, another variation will be made to take its place. This represents a growing challenge for law enforcement agencies. Using a HALO C18 column gives a fast, efficient separation of these illegal drugs with ample resolution for the next generation of illegal species.

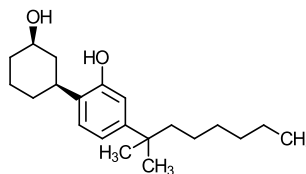
### STRUCTURES:



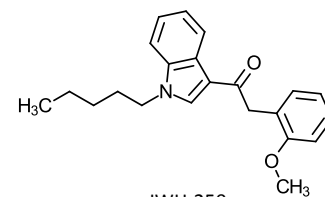
JWH-200



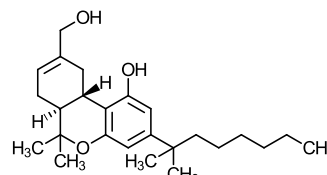
(±)-CP 47, 497 C8 Homologue



(±)-CP 47, 497



JWH-250



HU-211